포스터 발표 ( O ) / 학생구두발표 ( ) 빨간색은 작성하신 후 삭제바랍니다

Title (Times 16pt)

Sangeun Hong1,†, Sungyun Choi2,†, Kukro Yoon†,\* (발표자 밑줄, Times 12pt, Bold)

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Reactive Oxygen Species (ROS) in the mitochondria are a important pathologic factor in liver diseases, including cirrhosis. Ceria nanoparticles (CNPs) have two oxidation states, Ce3+ and Ce4+ which have stimulated researchers to study CNPs as therapeutic agents for treating numerous diseases, including cancer. The 2 nm ceria-zirconia nanoparticles (CZNPs) are control a higher Ce3+/Ce4+ ratio and faster change from Ce4+ to Ce3+ that those indicated by ceria nanoparticles. Consequently, targeting surface modified CZ NPs selectively to ROS might be a potential of therapeutic ally to generally liver diseases. Herein, we report the synthesis of surface modified CZ NPs that localize to mitochondria and inhibit hepatocellular death in a hepatic cirrhosis disease mouse model. The physicohemical properties were analysed by FE-TEM (Field-Emission Transmission Electron Microscope), EDS (Energy Dispersive X-ray Spectroscopy), FT-IR (Fourier Transform Infrared Spectroscopy), DLS (Dynamic Light Scattering), TGA (Thermogravimetrin Analysis), 1H-NMR (1H Nuclear Magnetic Resonance). (Times 12pt)

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